HW#63: Determining Similarity

Geometry

Due: Thursday, Jan 6th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Failure to show all work will result in LaSalle.

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| 1) Using the origin as the center of dilation, dilate the line using a scale factor of . Explain how you got your answer. | 2) Are the two triangles below similar? Explain why or why not?    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3) Reflect this figure across y=x. | 4) Rotate the figure 90 degrees counterclockwise about the origin. |

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| 5) Are the two figures below similar? State why or why not. | 6) Solve for x. |

**Review:**

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| 1. Filling Up:  |  | | --- | | You arrive at a gas station and pay $50 for gas. This gives you 12.28 gallons of gas.   * What can you figure out from this information? * Can you determine the price of a gallon of gas? * Can you determine the capacity of your gas tank? | |